HAB Taskforce

Background and Overview



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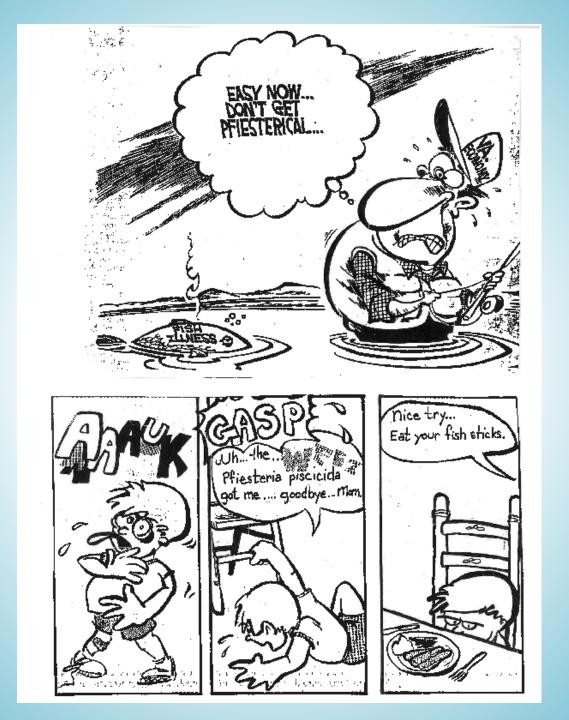


Overview

- HAB Task Force
 - Background
 - Services
- HAB Task Force Response Plan
 - Agency Roles & Responsibilities
 - VDH Regional/District Roles & Responsibilities

Virginian Pilot

September 1997



HAB Task Force - Background







1990s

2010s-Present

Hysteria over Pfiesteria An Atlantic Coast mystery

iesteria (fee-STEER-ee-uh) has been causing hysteria along the Atlantic coast. Just the name pfiesteria sounds kind of scary, doesn't it? Well, you'll be glad to know that it is not contagious or infectious. You can't catch it like you can a cold. Okay, then, what is it? Pfiesteria is a marine organism that generally falls under the heading

Though it's very small (0.007 of a millimeter

from an inactive cyst to a cyst that

presence of fish, pfiesteria transforms Unfortunately, scientists still do not know a lot about pfiesteria, but produces a poison. Pfiesteria uses this research is under way in Maryland, poison to stun fish, making it easier to Delaware, and North Carolina, where pfiesteria is most widespread. Many esearchers believe that pfiesteria has



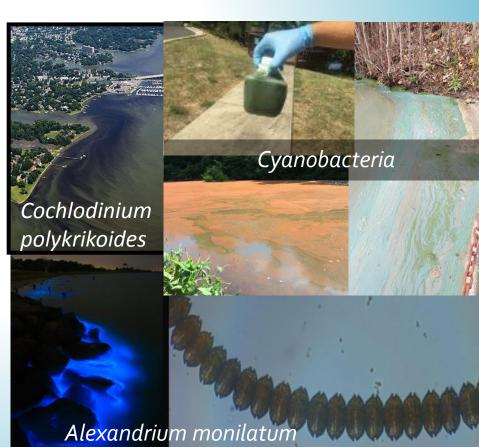
transformations. Increases in dead fish also seem to be associated with warmer waters, higher salt contents,



vst form of pfiesteria

and frequent storms.





HAB Task Force Agency Roles & Responsibilities

Department of Environmental Quality (TF Co-Chair)

- Provide response to marine and freshwater bloom events and fish kills
- Collect samples
- Historically service was limited to coastal areas, but has expanded to service state-wide*

Virginia Marine Resources Commission

- Pfiesteria Task Force Chair
- Provide enforcement for closures of marine waterbodies
- Resource for watermen & boaters

Support Agencies & Institutions

HAB Task Force Agency Roles & Responsibilities

- Laboratories: Virginia Institute for Marine Science & Old Dominion University
- Collect marine water samples
- Provide taxonomic identification and enumeration of cells in fresh/marine samples
- Conduct toxin assays
- Develop assay methods and conduct research
- Phytoplankton and HAB experts
- Fish disease & pathology (VIMS)

HAB Task Force Agency Roles & Responsibilities

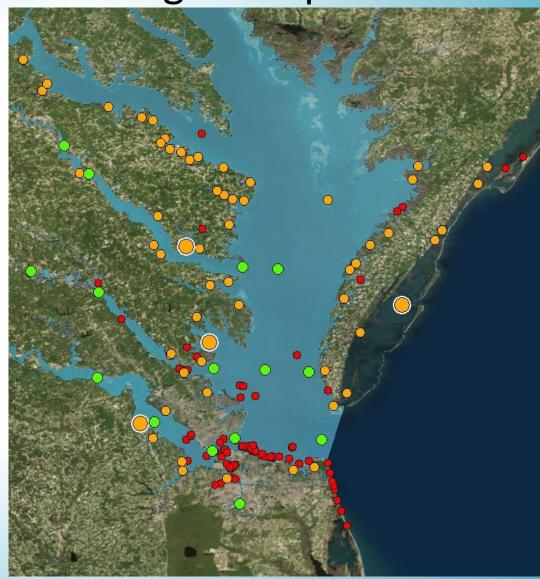
Virginia Department of Health (TF Co-Chair)

- DSS: Shellfish growing area surveillance
- ODW: Drinking water resource protection, advisories
- <u>DEE</u>: Administrative/Programmatic oversight and event response coordination, outreach
- HDs: Passive/active surveillance, information exchange with medical community, report/investigate suspected HAB-related illness, issue recreational advisories

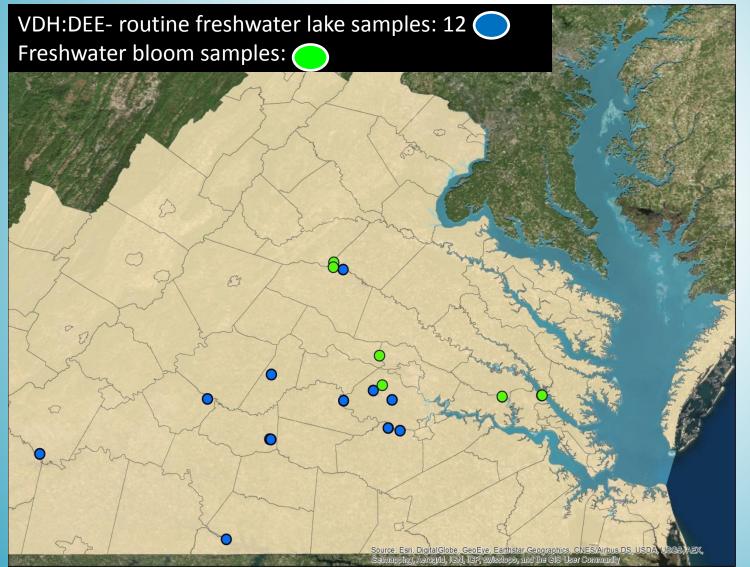
HAB Task Force - Services Surveillance, Monitoring & Response

Marine/Brackish Waters

- VDH: DSS- 62 routine stations
- DEQ/CBP-16 routine
- DEQ/VDH/ODU Bloom sampling



HAB Task Force - Services Surveillance, Monitoring & Response



Freshwater

- Since 2010, sites selected for freshwater surveillance each year
- In 2016, 10/12 lakes with species capable of producing toxin
- 2016 -Six bloom responses

HAB Task Force - Services Phytoplankton identification, enumeration & toxin assays





HAB Task Force – Services Reporting Out

- Algal Bloom Map
- Feature pages on website for bloom events
- Seasonal email updates to Task Force members
- Annual HAB Task Force Meeting
- Public Health Messaging



HAB Task Force — Services Reporting (In)

- 24/7 HAB Hotline
 - HAB-related human health effects
- Online HAB Report Form
 - Blooms & Fish kills

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HARMFUL ALGAL BLOOM ONLINE REPORT FORM	
Select a Report Type *	
New Report	Ψ
Waterbody Name *	
Date of Observation *	
GH.	
Time of Observation *	
HH MM	
Waterbody Location	
City*/County	
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HAB Task Force - Guidance HAB Response Plan (Updated 2017)

Objective 1:

Surveillance and Identification of HAB species

Objective 2:

Responding to and Managing HAB events

Objective 3:

Identify Primary Support Members and their Roles & Responsibilities

Objective 4:

Notification During HAB Events

Thank you!











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